

Message Text

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PAGE 01 SINAI 00378 121535Z
ACTION SSM-05

INFO OCT-01 NEA-10 ISO-00 OC-06 CCO-00 PASS-00 /022 W
-----121746Z 023539 /47

R 121455Z FEB 77
FM USMISSION SINAI
TO SECSTATE WASHDC 1997

UNCLAS SINAI 0378

FOR SSM FOR WALLEN

E.O. 11652: N/A
TAGS: ASUP, ASEC
SUBJECT: RAYCON

RELAY TO: E-SYSTEMS INC
MAJORS FIELD
GREENVILLE TX 75401
PHONE: 214-455-3458
TELEX NBR. 9108605604

ATTN: B. B. WOLFE

FROM: H.W. WERNER

REF: A) SINAI 179, B) STATE 020267

1. ESY-SFM BELIEVES THE DIFFICULTIES PREVIOUSLY OBSERVED WITH
THE RACON ARE CLOSE TO RESOLUTION. A SUMMARY OF EVENTS LEADING
TO THIS PREMISE ARE PROVIDED FOR YOUR REVIEW AND COMMENT.

A. USG WAS RESPONSIBLE FOR PROVIDING CABLE FOR INSTALLATION.
DUE TO NONAVAILABILITY OF CABLE, MR. WALLEN DIRECTED THAT
ESY-SFM UTILIZE AVAILABLE STOCK OF TELEPHONE WIRE (IO22-2/4)
FOR INITIAL CHECKOUT OF RACON SYSTEM.

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B. DUE TO LIMITED STOCK OF TELEPHONE WIRE, IT WAS NECESSARY
TO SPLICE IN ORDER TO MAKE LONG RUNS REQUIRED.

C. ORIGINAL SCHEMATIC FOR THE CONTROL BOX CIRCUIT WAS CORRECT,
HOWEVER, SUBSEQUENT TEST OF SYSTEM INDICATED RESISTOR VALUES
STATED WERE INCORRECT.

D. LINE IMBALANCE IN CONJUNCTION WITH THE RESISTANCE VALUES USED CAUSED FALSE ALARMS AT THE CONTROL BOX MAKING SYSTEM APPEAR INOPERABLE.

2. AFTER INITIAL INSTALLATION ESY-SFM COMPLETED SEVERAL TESTS OF VARIOUS PARTS OF THE SYSTEM. THESE TESTS/CHECKS HAVE PROVIDED THE FOLLOWING INFOZATION.

A. FOR SSM BLACK BOX CIRCUIT TO GATE PROPERLY 100 OHM RESISTORS WERE SUBSTITUTED FOR THE ORIGINALLY PROPOSED VALUES.

B. TESTS ON THE TELEPHONE LINE USED IN INITIAL INSTALLATION INDICATE RESISTANCE IS TOO HIGH. TELEPHONE WIRE IS BEING REPLACED WITH SURPLUS TWO PAIR SHIELDED CABLE. NEW CABLE SHOULD DECREASE RESISTANCE BY APPROXIMATELY 50 PERCENT AND BE WITHIN VALUES REQUIRED FOR PROPER GATING OF CONTROL BOX CIRCUITRY.

C. REALIGNED SYSTEM USING OVM. FOUND 6 TO 8 VOLTS ON ANTENNA RECEIVER. SPECIFICATIONS INDICATE 2 TO 4 VOLTS IS OPTIMUM READING. FOUND THAT GROUND LEVELING BETWEEN TRANSMIT/RECEIVE UNITS WOULD IMPROVE VOLTAGE.

D. GROUND LEVELING NOT ONLY IMPROVES VOLTAGE READINGS BUT ALSO IMPROVES DETECTION PATTERNS.
ROBERTS

NOTE BY OC/T: SINAI 0378 PASSED ABOVE ADDRESSEE.

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Message Attributes

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Channel Indicators: n/a
Current Classification: UNCLASSIFIED
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Control Number: n/a
Copy: SINGLE
Sent Date: 12-Feb-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01-Jan-1960 12:00:00 am
Disposition Event:
Disposition History: n/a
Disposition Reason:
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Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770051-0384
Format: TEL
From: SINAI
Handling Restrictions: n/a
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SAS ID: 3334863
Secure: OPEN
Status: NATIVE
Subject: RAYCON RELAY TO: E-SYSTEMS INC MAJORS FIELD
TAGS: ASUP, ASEC
To: STATE
Type: TE
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